

SPX350X2 / SPX700X4

Amplifier Manual Manual de Amplificador

Features

- RCA or High Level Signal InputWeather Resistant for Marine and Power Sports
- Ultra Compact Chassis
 High and Low Pass Crossovers
- Direct Insert Power Terminals
- Remote Volume Control with Mute Included
 Efficient Class D Topology

Características

- Resistencia climática para la marina y deportes de poder
- Ultra compacto y Topología eficiente tipo D
- Terminales de poder de inserción directa
- Control remoto de volumen y silenciado incluido
- Certificado de Nacimiento de puerto de alimentación



Specifications

SPX350X2 2 CHANNEL SPECIFICATIONS

Frequency Response: Signal to Noise Ratio: High and Low Pass Crossovers: Low Pass Crossover Range: High Pass Crossover Range: Input Range:

Lowest Recommend Load: Typical Efficiency: Damping Factor

 \pm 1dB from 20Hz to 20kHz >110dB 12dB per Octave 40Hz to 400Hz 40Hz to 400Hz 200 millivolts to 12 volts 4 ohm Bridged or 2 ohm Stereo

Greater than 200

 \pm 1dB from 20Hz to 20kHz

200 millivolts to 12 volts

4 ohm Bridged (bridge rear

12dB per Octave

40Hz to 400Hz

40Hz to 400Hz

>110dB

RMS Power 14.4Vdc ≤1% THD

125 x 2 @ 4 ohm Stereo 175 x 2 @ 2 ohm Stereo 350 x 1 @ 4 ohm Bridged

Recommended Fuse Size: 30 amp Power/Ground Wire Size: 8 Gauge Dimensions:

120mm L x 130mm W x 41mm H

4.72" L x 5.11" W x 1.6" H



SPX700X4 4 CHANNEL SPECIFICATIONS

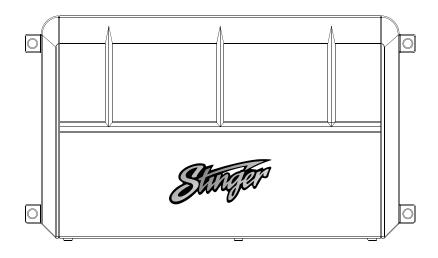
Frequency Response: Signal to Noise Ratio: High and Low Pass Crossovers: Low Pass Crossover Range: High Pass Crossover Range: Input Range: Lowest Recommend Load: channels only) or 2 ohm Stereo Typical Efficiency:

80% Damping Factor Greater than 200 RMS Power 14.4Vdc ≤1% THD

Recommended Fuse Size: Power/Ground Wire Size: Dimensions:

125 x 4 @ 4 ohm Stereo 175 x 4 @ 2 ohm Stereo 125 x 2 @ 4 ohm Stereo + 350 x 1 @ 4 ohm Bridged (Rear Channels only) 60 amp 8 Gauge

215mm L x 130mm W x 41mm H 8.5" L x 5.11" W x 1.6" H





SPX350X2 2 Channel Power Amplifier

SPX700X4 4 Channel Power Amplifier

RCA INPUT

Connect preamp signal cables from the source unit to RCA inputs in harness.

RCA OUTPUT

Provides a full range signal for an additional amplifier. There is no signal loss if using this output.

CROSSOVER FREQUENCY

Controls the crossover point for the speaker outputs, 40Hz-400Hz Low or High Pass.

I FVFI

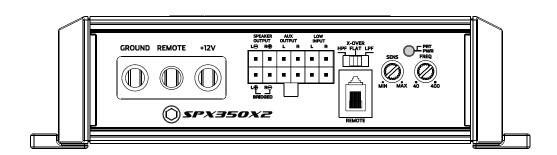
Used to reach maximum amplifier power with a wide variety of signal sources.

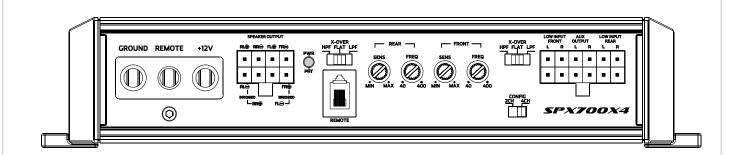
HI INPUT

Connect a factory system's headunit or amplifier outputs, no LOC needed. Use Stinger X12LINE or cut away RCA ends to use as Line Level Input.

REMOTE LEVEL CONTROL w/MUTE (REMOTE)

This port is for connecting the optional remote level control. This allows up to 20dB of volume adjustment by turning or push to mute.





12V-

This must be connected to the fused positive terminal (+12V) of the car's battery. The fuse must be located within 18 inches of the battery.

Recommended fuse rating is 30 amperes.

REMOTE

This must be connected to switched +12V, usually a trigger wire coming from the head unit or ignition. This is not used if using Hi input auto on feature. Only Rear Channels are controlled by Remote Level Controller.

GNE

This must be connected to the negative terminal of the car's battery or bolted to a clean, unpainted part of the chassis of the vehicle.

SPEAKER OUTPUTS

Used to connect the amplifier to speakers. SPX350X2 minimum impedance is

2 ohm stereo or 4 ohm mono.

INPUT CONFIGURATION (SPX700X4 only)

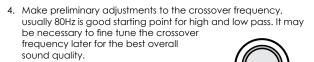
CONFIG switch on front panel can be used to select either 2CH inputs or 4CH inputs depending on your source unit capabilities. Select 2CH if only 2 channels of signal are available, this helps avoid having to use Y-connectors to drive 4 channels with only 2 channels of signal available.

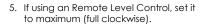


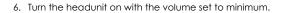
System tuning

- 1. Install all system fuses.
- 2. Set the amplifier's input sensitivity controls to their minimum positions (full counterclockwise).









- 6. Visually check the amplifier's has powered on by the power
- 8. Check the condition of all other components to make sure they are powered up.
- 9. Set the headunit's tone controls, balance, and fader to the center (flat) position. Turn off any loudness or other signal processing features.
- 10. Set the volume control of the source unit for maximum undistorted output (on most headunits / media devices this will be approximately 7/8 of maximum volume). Use a very clear and dynamic recording.







11. Turn up the input level control until the speakers reach maximum undistorted output.

- 12. Repeat input level adjustments for all other amplifiers.
- 13. Reduce the source unit volume to a comfortable level.
- 14. Listen to various musical selections to check overall system balance. Compare front to rear, midbass to midrange, etc. If one speaker set is too loud compared to another, then its level must be lowered to blend correctly with the other speakers. The idea is to reference all speakers to the weakest set.
- 15. Fine tune crossover frequencies to achieve the smoothest possible blending of each speaker set.
- 16. With all levels set correctly, the system will reach overall maximum undistorted output at the volume level set in step 10.

Volume Control with Mute Function

The included volume control will allow for +/- 20dB of level adjustment from the remote based on the level set in the previous step.

In some instances this will not be enough to completely mute the output level depending on the amount of input signal. In these cases, a mute function allows for instant mute of output without adjusting the volume control.

To activate the mute function, press the volume control knob inward until it clicks.

To return to previous output level; press the control knob again.



Troubleshooting

No power: Check voltage at amplifier with a DMM (volt meter), B+ and REM (with head unit on) the voltage should register between 12.2V and 14.6V when using the attached ground lead of the amplifier. Check fuse at amplifier and at the battery. Use a meter to verify connection from one end of the fuse to the other, breaks may not always be visible. If the fuse is blown, check the power wire and also the amplifier for a short. If the short is in the amplifier fuse, see your Stinger dealer. If no short is present, replace the fuse

Power without sound: Turn the amplifier off and check all input and output signal cables and power connections. Check the speakers for shorts with a DMM (volt meter) or by connecting them to another audio source. After making sure everything is correct, turn the amplifier on again.

"Motor Boating" - the power indicator going off repeatedly when the audio system is on: Check the amplifier's connection to the battery. Check battery voltage. If low, recharge or replace the battery. Check all ground connections.

Power without sound and the PROTECT LED is lit: The red PROTECT LED lights when the amplifier shuts down for either thermal or overcurrent protection. A high internal amplifier operating temperature will trigger thermal shutdown: after it cools about 5°C, the amplifier will restart. A shorted speaker lead or operation into unusually low impedance loads will trigger over-current shutdown: cycle power at the amplifier REM terminal to restore operation. Check for shorted speaker wiring or damaged speakers or crossover systems if over-current shutdown occurs.

No sound from one side: Check the balance control in the head unit. Check speaker connections. Check signal input connection.

Frequent amplifier shutdown with automatic recovery: This indicates chronic amplifier thermal shutdown because of operation at consistently high internal temperatures. High operating temperature can be caused by inadequate ventilation. Make sure you are not running a lower than recommend impedance. Also check for damaged speakers or passive crossover systems. Finally, chronic thermal shutdown may result from otherwise normal operation of the amplifier at elevated output power levels, which can be resolved by providing additional amplifier cooling, installing a higher-power amplifier, or reducing amplifier output level.

Very low output: Check your head unit's fader control or the amplifier's input sensitivity level. Make sure HP frequency control is not set too high and LP frequency control is not set too low at the same time

WARRANTY:

LIMITED WARRANTY ON AMPLIFIERS

Stinger warrants this product to be free of defects in materials and workmanship for a period of one (1) years from the original date of purchase. This warranty is not transferable and applies only to the original purchaser from an authorized Stinger dealer in the United States of America only. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Stinger will (at its discretion), repair or replace the defective product with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

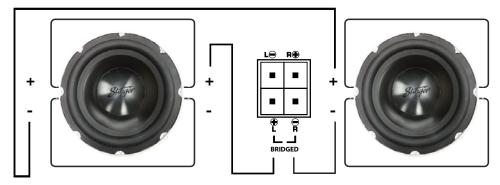
INTERNATIONAL WARRANTIES:

Products purchased outside the United States of America are covered only by that country's Authorized Stinger reseller and not by Stinger. Consumers needing service or warranty information for these products must contact that country's reseller for information.



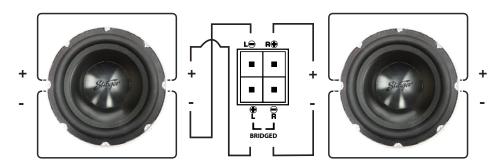
System Diagrams

Dual 2 Ohm Subwoofers



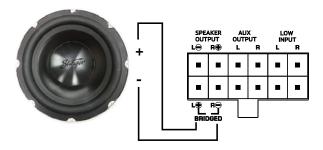
All voice coils are wired in parallel, then each speaker in series for a 8 ohm bridged load

Dual 4 Ohm Subwoofers

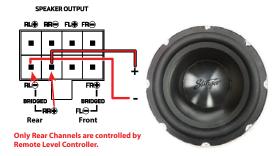


voice coils are wired in parallel and wired to each channel for a 2 Ohm load on each channel

Single 4 Ohm Subwoofer SPX350X2



Single 4 Ohm Subwoofer SPX700X4



Amplifier Owner's Manual





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